

PEDIATRIC NEPHROLOGY SOCIETY OF THE PHILIPPINES

CENSUS REPORT 2023

Renal Registry Committee



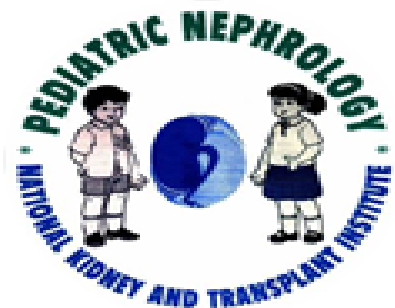


PNSP Pediatric Renal Census

Pediatric Renal Census

Admissions-Admission Referrals

NKTI-PCMC-PGH-UST-SPMC



Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January 1995 – December 2023

Pediatric Renal Census (Admissions & Admission Referrals)

Renal & Urologic Disorders	1995-2023	Percentage
Acute Post-infectious Glomerulonephritis	9108	22.4
Acute & Chronic Renal Failure	8332	20.5
Primary Nephrotic Syndrome	6297	15.5
Complicated & Uncomplicated UTI	5114	12.6
Hypertension & Renal Tubular Disease	2617	6.4
Secondary Glomerulonephritis (e.g. SLE, HSP, etc.)	2583	6.3
Congenital & Inherited Diseases	2343	5.8
Bladder Dysfunction	1995	4.9
Tumors & Tumor Lysis Syndrome	987	2.4
IgA Nephropathy	884	2.2
Urolithiasis	443	1.1
TOTAL	40703	

Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January – December 2023

Pediatric Renal Census (Admissions & Admission Referrals)

Renal & Urologic Disorders	2023	Percentage
Acute & Chronic Renal Failure	645	41.6
Congenital & Inherited Diseases	189	12.2
Hypertension & Renal Tubular Disease	189	12.2
Acute Post-infectious Glomerulonephritis	121	7.8
Complicated & Uncomplicated UTI	102	6.6
Primary Nephrotic Syndrome	77	5.0
Secondary Glomerulonephritis (eg. SLE, HSP, etc.)	67	4.3
Bladder Dysfunction	54	3.5
Tumors & Tumor Lysis Syndrome	52	3.4
IgA Nephropathy	31	2.0
Urolithiasis	23	1.5
TOTAL	1550	

Pediatric Nephrology Society of the Philippines
(NKTJ-PCMC-PGH-UST-SPMC)
Jan-Dec 2022 vs Jan-Dec 2023
Pediatric Renal Census (Admissions & Admission Referrals)

Renal & Urologic Disorders	2022	Percentage	2023	Percentage
Primary Nephrotic Syndrome	71	5.2	77	5.0
Acute Post-infectious Glomerulonephritis	130	9.4	121	7.8
Acute Kidney Injury	404	29.3	501	32.3
Chronic Kidney Disease	105	7.6	144	9.3
Complicated & Uncomplicated UTI	86	6.2	102	6.6
Bladder Dysfunction	28	2.0	54	3.5
Secondary Glomerulonephritis (e.g. SLE, HSP, etc)	66	4.8	67	4.3
Hypertension	142	10.3	114	7.4
Renal Tubular Disease	52	3.8	75	4.8
IgA Nephropathy	16	1.2	31	2.0
Congenital & Inherited Diseases	219	16.0	189	12.2
Tumors + Tumor Lysis Syndrome	37	2.7	52	3.4
Urolithiasis	21	1.5	23	1.5
TOTAL	1377		1550	

Pediatric Nephrology Society of the Philippines
(NKTJ-PCMC-PGH-UST-SPMC)
Jan-Dec 2022 vs Jan- Dec 2023
Pediatric Renal Census (Admissions & Admission Referrals)

COMPLICATED UTI	2022	Percentage	2023	Percentage
Bladder Dysfunction	2	2.7	10	7.4
Double Collecting System	4	5.4	18	13.3
Neurogenic Bladder	29	39.2	27	20.0
Nephrolithiasis	3	4.0	11	8.1
Phimosis	2	2.7	2	1.5
UPJO/UPJS	9	12.2	22	16.3
VUR	13	17.6	23	17.0
Hypospadias	2	2.7	3	2.2
Duplicated Kidney	0	0	0	0
Kidney Transplant	1	1.4	4	3.0
Liver Transplant	9	12.2	9	6.7
PUV	0	0	5	3.7
Unilateral Renal Agenesis	0	0	1	0.8
TOTAL	74		135	

Pediatric Nephrology Society of the Philippines
(NKTJ-PCMC-PGH-UST-SPMC)

Jan-Dec 2022 vs Jan- Dec 2023

Pediatric Renal Census (Admissions & Admission Referrals)

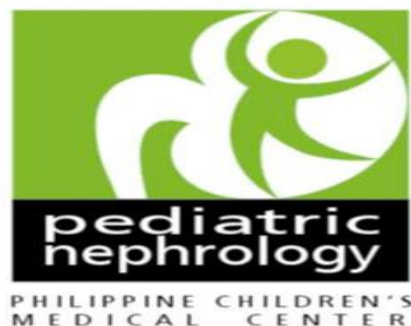
SECONDARY GLOMERULONEPHRITIS	2022	Percentage	2023	Percentage
HSP	2	3.0	11	16.9
SLE	64	97.0	54	83.1
TOTAL	66		65	



PNSP Pediatric Renal Census

ACUTE KIDNEY INJURY

2023



AKI KDIGO

	2022	2023
1	97 (39.5%)	45 (9.0 %)
2	73 (17.9%)	48 (9.6 %)
3	238 (58.3%)	408 (81.4 %)
Mortality	64 (15.7%)	137 (27.3 %)
RRT	44 (10.8%)	48 (9.6 %)
RRT on discharge	8 (1.9%)	4 (0.8%)
TOTAL	408	501

Pre-Renal AKI

		KDIGO			RRT	RRT on Discharge	Death	TOTAL
		1	2	3				
Decreased intravascular volume (Hypovolemic)	Dehydration	18	5	35	0	0	3	58
	Hemorrhage	2	1	2	0	0	2	5
	Diuretic	0	1	0	0	0	0	1
	Shock	2	7	30	4	1	20	39
	NS	0	0	2	0	0	0	2
	Others	0	0	0	0	0	0	0
Decreased cardiac function (Cardiogenic)	Heart failure	3	2	16	1	0	6	21
	Arrhythmias	0	0	0	0	0	0	0
	Others	0	0	0	0	0	0	0
Peripheral vasodilatation (Distributive)	Sepsis	0	2	6	0	0	2	8
	Anaphylaxis	0	0	0	0	0	0	0
	Anti-HTN medication	0	0	1	0	0	0	1
	Others	0	0	0	0	0	0	0
Renal vasoconstriction	NSAIDs	0	0	0	0	0	0	0
	ACE inhibitor/ARB	0	0	0	0	0	0	0
	Others	0	0	2	0	0	0	2
TOTAL		25	18	94	5	1	33	137

Intrinsic AKI

		KDIGO			RRT	RRT on Discharge	Death	TOTAL
		1	2	3				
Tubular injury	Prolonged ischemia	1	2	10	6	1	4	13
	Nephrotoxins	4	6	26	1	0	6	36
	Hypotension	0	2	8	2	0	2	10
	Sepsis	5	10	151	11	0	69	166
	Others	0	0	1	1	0	1	1
Renal vascular diseases	HUS	0	0	1	0	0	0	1
	Vasculitides	0	0	0	0	0	0	0
	Thrombosis	0	0	0	0	0	0	0
	Others	0	0	0	0	0	0	0
Interstitial diseases	Interstitial nephritis	0	0	2	0	0	0	2
	Infections	0	1	42	3	0	2	43
	Malignant infiltration	0	0	4	0	0	2	4
	Others	1	0	0	0	0	0	1
Glomerulonephritides	PIGN	1	2	13	2	0	0	16
	RPGN	0	1	10	3	1	2	11
	HSP	0	0	0	0	0	0	0
	Lupus	0	0	6	2	0	1	6
	Others	1	2	7	6	1	1	10
TOTAL		13	26	281	37	3	90	320

Post-Renal AKI

		KDIGO			RRT	RRT on Discharge	Death	TOTAL
		1	2	3				
Structural	Nephrolithiasis	0	0	1	1	0	0	1
	Tumor	3	1	17	2	0	13	21
	Stricture/Stenosis PUJO UVJO PUV	2	0	0	0	0	0	2
	Blood clots	0	0	4	2	0	1	4
	Blocked catheter	0	3	0	0	0	0	3
	Others	1	0	1	0	0	0	2
Functional	Neurogenic bladder	1	0	5	1	0	0	6
	Others	0	0	5	0	0	0	5
TOTAL		7	4	33	6	0	14	44

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January 2013 - December 2023

Pediatric Renal Dialysis Access Census (Admissions & Admission Referrals)

Dialysis Access	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	TOTAL
Stiff Catheterization	6	0	0	0	0	0	0	0	0	0	0	6
Tenckhoff Catheterization	61	50	55	72	68	79	65	14	47	63	52	626
HD Catheterization	39	58	40	65	35	106	101	73	82	114	117	830

Pediatric Nephrology Society of the Philippines
(NKTJ-PCMC-PGH-UST-SPMC)

January 2013 – December 2023

Pediatric Renal Replacement Therapy Census (Admissions & Admission Referrals)

MODE OF DIALYSIS	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	TOTAL
Peritoneal Dialysis	83	69	59	67	96	112	65	44	47	63	52	757
<i>Acute PD</i>	35	20	26	30	46	25	16	17	11	21	17	264
<i>CIPD</i>	5	0	0	0	0	2	14	0	0	0	0	21
<i>CAPD</i>	43	44	33	37	50	83	34	27	36	42	35	464
<i>CCPD</i>	0	5	0	0	0	2	1	0	0	0	0	8
Hemodialysis	39	58	40	65	35	118	101	73	82	117	130	858
Renal Transplant	5	5	4	8	6	7	3	3	3	9	11	64



PNSP Pediatric Renal Census

RENAL BIOPSY

2023



Pediatric Nephrology Society of the Philippines

(NKTJ-PCMC-PGH-UST-SPMC)

January 2005– December 2023

Pediatric Renal Biopsy Census (Admissions & Admission Referrals)

BIOPSY YEAR	Renal Biopsy /Year
2005	137
2006	137
2007	179
2008	156
2009	130
2010	175
2011	161
2012	114
2013	144
2014	109

BIOPSY YEAR	Renal Biopsy /Year
2015	101
2016	103
2017	84
2018	104
2019	108
2020	26
2021	71
2022	103
2023	95

Total: **2237**

Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January 2005– December 2023

Pediatric Renal Biopsy Census (Admissions & Admission Referrals)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	TOTAL
SLE Nephritis Total/year	5	13	28	19	15	15	24	16	14	8	8	6	10	6	19	5	15	12	10	248
Class I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Class II	0	0	0	0	0	2	1	2	3	0	1	1	1	0	1	0	4	0	0	16
Class III	1	4	9	2	5	5	7	4	4	3	3	1	6	1	8	2	4	4	5	78
Class IV	3	8	16	14	9	7	15	4	6	2	3	3	1	4	4	2	7	6	4	118
Class V	1	1	3	3	1	1	0	6	1	3	1	1	2	1	6	1	0	2	1	35
Class VI	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1

Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January 2005– December 2023

Pediatric Renal Biopsy Census (Admissions & Admission Referrals)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	TOTAL
IgAN	8	12	12	24	15	22	28	22	22	22	20	18	9	7	16	7	4	16	22	306
HSP/IgAV	6	6	10	7	5	5	4	4	9	13	8	9	8	3	1	0	1	2	5	106
MCD/MGA	32	34	34	19	15	19	14	13	31	22	26	13	18	40	26	4	11	20	30	421
MesPGN	16	25	21	12	11	13	6	7	14	4	3	12	8	8	7	3	4	7	3	184
FSGS	12	15	27	33	35	44	45	23	24	10	13	23	20	20	11	4	18	18	16	411
DPGN	6	11	15	13	11	3	3	4	0	1	0	0	1	0	0	0	1	1	0	70
Membranous GN	21	4	5	5	1	2	5	1	0	2	5	2	0	5	0	0	0	1	0	59
MPGN	15	6	8	4	4	2	8	2	5	8	2	1	0	6	5	0	1	0	1	78
Crescentic GN	3	3	10	3	4	3	0	3	1	1	1	3	0	2	1	0	1	1	0	40

Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January 2005– December 2023

Pediatric Renal Biopsy Census (Admissions & Admission Referrals)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	TOTAL
Acute Tubular Injury	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2
Acute T Cell mediated rejection	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2
Alport Syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
ATN	0	2	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	1	0	6
C1Q Nephropathy	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
CNI Toxicity	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Diffuse Sclerosing GN	0	2	0	3	0	5	2	0	2	1	0	0	1	0	1	0	0	0	0	17
FPGN	3	0	1	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	7
IgM Nephropathy	0	0	4	3	0	6	4	0	2	1	4	4	2	3	0	0	0	2	0	35
Immune Complex Mediated GN	8	2	3	5	9	14	7	7	2	4	4	6	4	1	8	0	4	4	2	94
Glomerulonephritis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	5
Fibrillary Glomerulonephritis																	1	0	0	1

Pediatric Renal Biopsy Census (Admissions & Admission Referrals)

[illegible]

Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January 2005– December 2023

Pediatric Renal Biopsy Census (Admissions & Admission Referrals)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	TOTAL
GRAFT BIOPSY																				
Acute Rejection																	1	0	0	1
Chronic Allograft Nephropathy																	0	0	0	0
CNI Toxicity																	0	0	0	0
FSGS																	0	0	0	0
Borderline ACR																	0	0	0	0
Chronic Active Humoral Rejection																	0	0	1	1
MCD, Acute Tubular Injury Drug-Associated Changes																	0	0	0	0
TOTAL	137	137	179	156	130	175	161	114	144	109	101	103	84	104	108	26	71	103	95	2237



PNSP Pediatric Renal Census

LEPTOSPIROSIS

2023



Pediatric Nephrology Society of the Philippines

(NKTJ-PCMC-PGH-UST-SPMC)

January 2005 – December 2023

Pediatric Leptospirosis Census (Admissions & Admission Referrals)

Year	Number of Cases
2005	4
2006	7
2007	10
2008	6
2009	65
2010	8
2011	104
2012	127
2013	98
2014	49

Year	Number of Cases
2015	25
2016	56
2017	79
2018	181
2019	106
2020	54
2021	49
2022	55
2023	46

Total: **1129**

Pediatric Nephrology Society of the Philippines

(NKTi-PCMC-PGH-UST-SPMC)

January – December 2023

Pediatric Leptospirosis Census (Admissions & Admission Referrals)

HOSPITAL	NUMBER OF CASES SEEN	
	2022 (n = 55)	2023 (n = 46)
National Kidney and Transplant Institute	21	24
Philippine Children's Medical Center	12	7
Philippine General Hospital	11	6
University of Santo Tomas Hospital	0	0
Southern Philippines Medical Center	11	9

LEPTOSPIROSIS REGISTRY

Other Institutions: **99**

1. Southern Isabela Medical Center: 3
2. San Lazaro Hospital: 8
3. Pasig City General Hospital: 4
4. Tondo Medical Center: 11
5. Jose B. Lingad Memorial Hospital (Pampanga): 3
6. Vicente Sotto Memorial Medical Center (Cebu): 1
7. Bataan General Hospital and Medical Center: 4
8. Baguio General Hospital and Medical Center: 2
9. Ospital ng Muntinlupa: 1
10. Zamboanga City Medical Center: 11
11. Cagayan Valley Medical Center: 11
12. Region 1 Medical Center: 27
13. Jose N. Rodriguez Memorial Hospital: 8
14. East Avenue Medical Center: 5

Pediatric Nephrology Society of the Philippines

(NKTI-PCMC-PGH-UST-SPMC)

January – December 2023

Pediatric Leptospirosis Census (Admissions & Admission Referrals)

LOCATION	NUMBER OF PATIENTS
CAVITE	0
NORTHERN SAMAR	0
RIZAL	5
NAVOTAS	1
MANDALUYONG	0
PARANAQUE	0
LAGUNA	2
DAVAO CITY	9
MINDORO	2

LOCATION	NUMBER OF PATIENTS
CALOOCAN CITY	2
LAS PINAS	1
MALABON	1
MANILA	6
PASAY CITY	6
QUEZON CITY	10
MAKATI	1
VALENZUELA	0

Pediatric Nephrology Society of the Philippines

(NKTJ-PCMC-PGH-UST-SPMC)

January – December 2023

Pediatric Leptospirosis Census (Admissions & Admission Referrals)

	2022		2023	
Features	Frequency	Percentage	Frequency	Percentage
SEX				
Male	54	98.2	41	89.1%
Female	1	1.8	5	10.9%
TOTAL	55		46	
AGE				
0-5 years	0		0	0
6-10 years	4	7.3	6	13.0
11-15 years	23	41.8	20	43.5
16-19 years	28	50.9	20	43.5
TOTAL	55		46	

Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January – December 2023

Pediatric Leptospirosis Census (Admissions & Admission Referrals)

Month of Consultation upon Diagnosis of Leptospirosis	
MONTH	NUMBER OF CONSULTATIONS
JANUARY	1
FEBRUARY	1
MARCH	0
APRIL	2
MAY	0
JUNE	4
JULY	6
AUGUST	12
SEPTEMBER	9
OCTOBER	4
NOVEMBER	6
DECEMBER	1

Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January – December 2023

Pediatric Leptospirosis Census (Admissions & Admission Referrals)

COMPLICATIONS	2022		2023	
	FREQUENCY (n = 55)	%	FREQUENCY (n = 46)	%
RENAL FAILURE	31	56.4	35	76.1
RENAL FAILURE/MYOCARDITIS	3	5.5	7	15.2
PULMONARY HEMORRHAGE/ RENAL FAILURE	5	5.5	1	2.2
PULMONARY HEMORRHAGE/RENAL FAILURE/ MYOCARDITIS	1	1.8	0	
PULMONARY HEMORRHAGE	0	0	0	
NOSOCOMIAL PNEUMONIA	0	0	0	
NOSOCOMIAL PNEUMONIA, ARDS	0	0	0	
NONE	15	30.6	3	6.5

Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January – December 2023

Pediatric Leptospirosis Census (Admissions & Admission Referrals)

	2022 (n = 55)	2023 (n = 46)
RENAL REPLACEMENT TX		
HEMODIALYSIS	17 (30.9%)	10 (21.7%)
PERITONEAL DIALYSIS	0	0
NONE	38 (69.1%)	36 (78.3%)

Pediatric Nephrology Society of the Philippines
(NKTI-PCMC-PGH-UST-SPMC)

January – December 2023

Pediatric Leptospirosis Census (Admissions & Admission Referrals)

	2022		2023	
OUTCOME	FREQUENCY (n = 55)	%	FREQUENCY (n = 46)	%
DISCHARGED / RECOVERED	48	82.3	45	97.8
RRT ON DISCHARGE	0	0	0	0
CKD	0	0	0	0
EXPIRED	7	12.7	1	2.2



PNSP Pediatric Renal Census

LUPUS NEPHRITIS

2023



Pediatric Nephrology Society of the Philippines
(NKTl-PCMC-PGH-UST-SPMC)
January - December 2023
Pediatric Lupus Nephritis Census

INSTITUTIONS	NUMBER OF PATIENTS	
	2022	2023
NATIONAL KIDNEY AND TRANSPLANT INSTITUTE	14	17
PHILIPPINE CHILDREN'S MEDICAL CENTER	9	15
PHILIPPINE GENERAL HOSPITAL	13	10
UNIVERSITY OF STO. TOMAS HOSPITAL	3	2
SOUTHERN PHILIPPINES MEDICAL CENTER	25	10
TOTAL	64	54

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January - December 2023
Pediatric Lupus Nephritis Census

LOCATION	NUMBER OF PATIENTS	
	2022	2023
NCR	19	25
REGION I	0	1
REGION III	1	3
REGION IV	14	15
REGION V	1	0
REGION VIII	1	0
REGION IX	1	0
REGION X	0	2
REGION XI	26	7
REGION XIII	0	1
TOTAL	64	54

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January - December 2023
Pediatric Lupus Nephritis Census

PRIMARY RENAL PRESENTATION	FREQUENCY N = 54	PERCENTAGE
MICROSCOPIC HEMATURIA	0	0
GROSS HEMATURIA	2	3.7
ISOLATED PROTEINURIA SIGNIFICANT NEPHROTIC RANGE	12	22.2
NEPHRITIC SYNDROME	7	13.0
NEPHROTIC SYNDROME	16	29.7
NEPHROTIC-NEPHRITIC	5	9.3
ELECTROLYTE IMBALANCE	0	0
HYPERTENSION	2	3.7
ACUTE KIDNEY INJURY	10	18.5
OTHERS	0	0

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January - December 2023
Pediatric Lupus Nephritis Census

RENAL OUTCOME	FREQUENCY N = 54	PERCENTAGE
FULL RECOVERY / REMISSION	7	13.0
PARTIAL RECOVERY / REMISSION	26	48.1
ACTIVE	11	20.4
ON RRT ON DISCHARGE PD HD	4	7.4
CKD	2	3.7
LOST TO FOLLOW UP	10	18.5
PATIENT OUTCOME		
DIED	3	5.5
RECOVERED	41	76.0
LOST TO FOLLOW UP	10	18.5



PNSP Pediatric Renal Census

CAKUT
2023



Pediatric Nephrology Society of the Philippines
(NKTi-PCMC-PGH-UST-SPMC)
January – December 2023
Pediatric CAKUT

INSTITUTION	NUMBER OF PATIENTS
NATIONAL KIDNEY AND TRANSPLANT INSTITUTE	60
PHILIPPINE CHILDREN'S MEDICAL CENTER	67
PHILIPPINE GENERAL HOSPITAL	70
UNIVERSITY OF SANTO TOMAS HOSPITAL	51
SOUTHERN PHILIPPINES MEDICAL CENTER	32

Total: **280**

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January – December 2023
Pediatric CAKUT

FIRST CONSULT?	PERCENT
Yes = 225	80.4 %
No = 55	19.6 %

Pediatric Nephrology Society of the Philippines
(NKTJ-PCMC-PGH-UST-SPMC)
January – December 2023
Pediatric CAKUT

FEATURES	PERCENTAGE
SEX	
Male	174 (62.1 %)
Female	106 (37.9 %)
AGE	
0-5 years old	195 (69.6 %)
6-10 years old	41 (14.6 %)
11-15 years old	27 (9.6 %)
16-18 years old	17 (6.1 %)

Pediatric Nephrology Society of the Philippines
(NKTI-PCMC-PGH-UST-SPMC)
January – December 2023
Pediatric CAKUT

CONGENITAL & INHERITED DISEASE	2023	%
BLADDER EXSTROPHY	1	0.36
COMPLETE DUPLICATION, L	1	0.36
CROSSED FUSED ECTOPIA	2	0.71
CYSTIC KIDNEYS	3	1.07
DCS	21	7.5
L	12	
R	8	
B	1	
DUPLEX KIDNEY	2	0.71
DYPLASTIC KIDNEYS	3	1.07
ECTOPIC BLADDER	1	0.36
ECTOPIC KIDNEY	1	0.36
HORSESHOE KIDNEY	3	1.07
HYDRONEPHROSIS	41	14.64
HYDROURETERONEPHROSIS	3	1.07
HYPOSPADIAS	49	17.5
MCDK	8	2.85
R	3	
L	5	
B		

CONGENITAL & INHERITED DISEASE	2023	%
NEUROGENIC BLADDER	38	14.7
NONFUNCTIONING KIDNEY	1	0.36
PATENT URACHUS	1	0.36
PERSISTENT CLOACA	1	0.42
PHIMOSIS	3	1.07
POLYCYSTIC KIDNEYS	1	0.36
POSTERIOR URETHRAL VALVE	6	2.14
RENAL AGENESIS	19	6.79
R	8	
L	11	
B	0	
RENAL CYST		
RENAL HYPOPLASIA	2	0.71
R	2	
L		

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January – December 2023
Pediatric CAKUT

CONGENITAL & INHERITED DISEASE	2023	%
UNDESCENDED TESTES	1	0.36
UPJO/UPJS	31	11.07
R	21	
L	6	
B	4	
URETEROCELE	3	1.07
URETHRAL DIVERTICULUM		
URETHRAL STENOSIS		
URETHRAL STRICTURE	1	0.36
UROGENITAL SINUS	1	0.36
UVJO	7	2.5
R	3	
L	4	
B		
VUR GR 5	9	3.2
R		
L	4	
B	5	

CONGENITAL & INHERITED DISEASE	2023	%
VUR GR 4	7	2.5
R	3	
L	2	
B	2	
VUR GR 3	4	1.43
R	1	
L	2	
B	1	
VUR GR 2	2	0.71
R	1	
L	1	
VUR GR 1	0	
R		
L		
TOTAL	280	100

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January – December 2023
Pediatric CAKUT

RENAL PROBLEMS	FREQUENCY	PERCENTAGE (%)
URINARY TRACT INFECTION	75	26.8
FEBRILE UTI	48	
RECURRENT UTI	27	
HYPERTENSION	2	0.71
OBSTRUCTION	20	7.14
ACUTE KIDNEY INJURY	12	4.28
CHRONIC KIDNEY DISEASE	9	3.21
AZOTEMIA	8	
ON RRT	1	
INCIDENTAL	162	57.86

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January – December 2023
Pediatric CAKUT

MANAGEMENT	
MEDICAL	144 (51.4 %)
SURGICAL	136 (48.6 %)

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January – December 2023
Pediatric CAKUT

RENAL OUTCOME	FREQUENCY	PERCENTAGE
CKD NOT ON RRT	9	3.2 %
CKD ON RRT	6	2.1 %
PATIENT OUTCOME		
DIED	2	0.7 %



PNSP Pediatric Renal Census

CKD
2023



Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January – December 2023

Pediatric CKD Census (Admissions & Admission Referrals)

INSTITUTIONS	NUMBER OF PATIENTS	
	2022	2023
NATIONAL KIDNEY AND TRANSPLANT INSTITUTE	49	66
PHILIPPINE CHILDREN'S MEDICAL CENTER	16	26
PHILIPPINE GENERAL HOSPITAL	13	14
UNIVERSITY OF STO. TOMAS HOSPITAL	4	20
SOUTHERN PHILIPPINES MEDICAL CENTER	23	18
TOTAL	105	144

Pediatric Nephrology Society of the Philippines

(NKTi-PCMC-PGH-UST-SPMC)

January – December 2023

Pediatric CKD Census (Admissions & Admission Referrals)

FEATURES	FREQUENCY (N = 144)	%
SEX		
Male	65	45.1%
Female	79	54.9%
AGE		
0-5 years old	6	4.2 %
6-10 years old	27	18.8 %
11-15 years old	56	38.9 %
16-18 years old	55	38.2 %

Pediatric Nephrology Society of the Philippines

(NKTl-PCMC-PGH-UST-SPMC)

January – December 2023

Pediatric CKD Census (Admissions & Admission Referrals)

PRIMARY DIAGNOSIS	FREQUENCY	PERCENT
Chronic Glomerular Disease	75	52.1
Secondary		
Focal Segmental Glomerulosclerosis	9	6.3
IgM Nephropathy	1	0.7
IgA Nephropathy	7	4.9
Lupus Nephritis	8	5.6
Multiple Myeloma	1	0.7
Urologic		
Congenital Anomaly of the Kidneys and Urinary Tract	15	10.4
Neurogenic bladder	3	2.1
Obstructive uropathy	1	0.7
Reflux Nephropathy	8	5.6
Renovascular Disorder	2	1.4
Cystic Kidney Disease	1	0.7
Hypoplastic Kidney	2	1.4
Others	11	7.6

Pediatric Nephrology Society of the Philippines

(NKTl-PCMC-PGH-UST-SPMC)

January – December 2023

Pediatric CKD Census (Admissions & Admission Referrals)

PREVIOUS AKI	FREQUENCY	PERCENT
Yes	38	26.4 %
No	106	73.6 %
BIOPSY DONE		
Yes	24	16.7 %
No	120	83.3 %

Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January – December 2023

Pediatric CKD Census (Admissions & Admission Referrals)

MANAGEMENT	
SUPPORTIVE	48
RENAL REPLACEMENT THERAPY	96
HEMODIALYSIS	53
PERITONEAL DIALYSIS	32
TRANSPLANT	11



PNSP Pediatric Renal Census

COVID-19

2023



Pediatric Nephrology Society of the Philippines
(NKTJ-PCMC-PGH-UST-SPMC)
January 2005– December 2023
Pediatric COVID

	Male	Female	Total
SEX	22	40	62
AGE GROUP			
<1 years old	2	2	4
1-6 years old	5	3	8
7-12 years old	5	8	13
13-18 years old	10	27	37

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January 2005– December 2023
Pediatric COVID

COVID WITH RENAL MANIFESTATIONS	RENAL PATIENTS WITH COVID INFECTION
14	48

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January 2005– December 2023
Pediatric COVID

COMORBIDITIES	FREQUENCY	PERCENTAGE (N = 62)
NONE	4	6.4
RENAL	51	82
CARDIAC	2	3.2
PULMO	0	0
GI	3	4.8
NEURO	0	0
HEMA-ONCO	1	1.6
SURGERY	0	0
ENDO	1	1.6

Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January 2005– December 2023

Pediatric COVID

PRIMARY RENAL PRESENTATION	COVID WITH RENAL MANIFESTATIONS (N = 14)	RENAL PATIENTS WITH COVID INFECTION (N = 48)
MICROSCOPIC HEMATURIA	0	0
GROSS HEMATURIA	0	1
PYURIA	1	0
PROTEINURIA	0	2
NEPHRITIC	0	0
NEPHROTIC	0	8
ELECTROLYTE IMBALANCE	1	2
HYPERTENSION	2	1
ACUTE KIDNEY INJURY	10	1
CKD	0	29
Dialysis		15
Transplant		
OTHERS	0	4

Pediatric Nephrology Society of the Philippines
(NKTJ-PCMC-PGH-UST-SPMC)
January 2005– December 2023
Pediatric COVID

AKI STAGE (KDIGO)	FREQUENCY (n = 11)	PERCENTAGE
STAGE 1	2	18%
STAGE 2	1	9%
STAGE 3	8	72%

Pediatric Nephrology Society of the Philippines
(NKTI-PCMC-PGH-UST-SPMC)
January 2005– December 2023
Pediatric COVID

CYTOKINE STORM PRESENT?	FREQUENCY (n = 62)	PERCENTAGE
YES	6	9.7%
NO	32	51.6%
NOT EVALUATED	24	38.7%

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January 2005– December 2023
Pediatric COVID

DIURETIC USE	FREQUENCY (n = 62)	PERCENTAGE
NONE	51	82.3 %
LOOP	11	17.7 %
THIAZIDE	0	
AQUARETIC	0	
OTHERS	0	

Pediatric Nephrology Society of the Philippines
(NKTJ-PCMC-PGH-UST-SPMC)
January 2005– December 2023
Pediatric COVID

VASOPRESSOR USE	FREQUENCY (n = 62)	PERCENTAGE
NONE	43	69.4 %
NOREPINEPHRINE	5	8.1 %
EPINEPHRINE	14	22.5 %
DOPAMINE	0	
DOBUTAMINE	0	
VASOPRESSIN	0	

Pediatric Nephrology Society of the Philippines
(NKTJ-PCMC-PGH-UST-SPMC)
January 2005– December 2023
Pediatric COVID

RENAL REPLACEMENT THERAPY	FREQUENCY (n = 62)	PERCENTAGE
NONE	43	69.4 %
PD	5	8.1 %
IHD	14	22.5 %
PIRRT OR SLEDD	0	
CVVHF	0	
CVVHD	0	
CVVHDF	0	

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January 2005– December 2023
Pediatric COVID

HEMOPERFUSION DONE	FREQUENCY	PERCENTAGE
CARTRIDGE USED: HA330 MG350 OTHER	1	1.6 %

Pediatric Nephrology Society of the Philippines

(NKT-PCMC-PGH-UST-SPMC)

January 2005– December 2023

Pediatric COVID

TREATMENT	FREQUENCY (n = 62)	PERCENTAGE
ANTIVIRAL THERAPY		
NONE	51	82.3 %
LOPINAVIR/RITONAVIR	0	0
REMDESIVIR	8	12.9 %
OTHERS (SPECIFY)	3	4.8 %
IMMUNOMODULATORS		
• NONE	40	64.5%
• HYDROXYCHLOROQUINE	0	
• TOCILUZIMAB	8	12.9 %
• DEXAMETHASONE	12	19.4 %
• CONVALESCENT PLASMA	0	
• IVIG	2	3.2 %
• MESENCHYMAL STEM CELL	0	
• OTHERS (SPECIFY)	0	
METHYLPREDNISOLONE		

Pediatric Nephrology Society of the Philippines
(NKT-PCMC-PGH-UST-SPMC)
January 2005 – December 2023
Pediatric COVID

	FREQUENCY	PERCENTAGE
RENAL OUTCOME (AKI)		n = 11
FULL RECOVERY	4	36.4%
PARTIAL RECOVERY	1	9.1%
DIED	3	27.3%
ON RRT	1	9.1%
UNKNOWN	2	18.2%
PATIENT OUTCOME		n = 62
DIED	7	11.3 %
RECOVERED	52	83.9 %
UNKNOWN	3	4.8 %
LENGTH OF STAY	8.8 days	